

SEQUENCE LISTING

<110> Cannon, Paul David  
Sankuratri, Suryanarayana

<120> Human Intestinal Npt2B

<130> ROCH-001

<150> 60/119, 321  
<151> 1999-02-09

<160> 2

<170> FastSEQ for Windows Version 4.0

<210> 1  
<211> 689  
<212> PRT  
<213> human

<400> 1  
Met Ala Pro Trp Pro Glu Leu Gly Asp Ala Gln Pro Asn Pro Asp Lys  
1 5 10 15  
Tyr Leu Glu Gly Ala Ala Gly Gln Gln Pro Thr Ala Pro Asp Lys Ser  
20 25 30  
Lys Glu Thr Asn Lys Asn Asn Thr Glu Ala Pro Val Thr Lys Ile Glu  
35 40 45  
Leu Leu Pro Ser Tyr Ser Thr Ala Thr Leu Ile Asp Glu Pro Thr Glu  
50 55 60  
Val Asp Asp Pro Trp Asn Leu Pro Thr Leu Gln Asp Ser Gly Ile Lys  
65 70 75 80  
Trp Ser Glu Arg Asp Thr Lys Gly Lys Ile Leu Cys Phe Phe Gln Gly  
85 90 95  
Ile Gly Arg Leu Ile Leu Leu Gly Phe Leu Tyr Phe Phe Val Cys  
100 105 110  
Ser Leu Asp Ile Leu Ser Ser Ala Phe Gln Leu Val Gly Gly Lys Met  
115 120 125  
Ala Gly Gin Phe Phe Ser Asn Ser Ser Ile Met Ser Asn Pro Leu Leu  
130 135 140  
Gly Leu Val Ile Gly Val Leu Val Thr Val Leu Val Gln Ser Ser Ser  
145 150 155 160  
Thr Ser Thr Ser Ile Val Val Ser Met Val Ser Ser Ser Leu Leu Thr  
165 170 175  
Val Arg Ala Ala Ile Pro Ile Ile Met Gly Ala Asn Ile Gly Thr Ser  
180 185 190  
Ile Thr Asn Thr Ile Val Ala Leu Met Gln Val Gly Asp Arg Ser Glu  
195 200 205  
Phe Arg Arg Ala Phe Ala Gly Ala Thr Val His Asp Phe Phe Asn Trp  
210 215 220  
Leu Ser Val Leu Val Leu Leu Pro Val Glu Val Ala Thr His Tyr Leu  
225 230 235 240  
Glu Ile Ile Thr Gln Leu Ile Val Glu Ser Phe His Phe Lys Asn Gly  
245 250 255  
Glu Asp Ala Pro Asp Leu Leu Lys Val Ile Thr Lys Pro Phe Thr Lys

260	265	270
Leu Ile Val Gln Leu Asp Lys Lys Val	Ile Ser Gln Ile Ala Met Asn	
275	280	285
Asp Glu Lys Ala Lys Asn Lys Ser	Leu Val Lys Ile Trp Cys Lys Thr	
290	295	300
Phe Thr Asn Lys Thr Gln Ile Asn Val Thr Val	Pro Ser Thr Ala Asn	
305	310	315
Cys Thr Ser Pro Ser Leu Cys Trp Thr Asp	Gly Ile Gln Asn Trp Thr	
325	330	335
Met Lys Asn Val Thr Tyr Lys Glu Asn Ile Ala Lys Cys	Gln His Ile	
340	345	350
Phe Val Asn Phe His Leu Pro Asp	Leu Ala Val Gly Thr Ile Leu Leu	
355	360	365
Ile Leu Ser Leu Leu Val Leu Cys Gly Cys	Leu Ile Met Ile Val Lys	
370	375	380
Ile Leu Gly Ser Val Leu Lys Gly Gln Val Ala	Thr Val Ile Lys Lys	
385	390	395
Thr Ile Asn Thr Asp Phe Pro Phe	Pro Ala Trp Leu Thr Gly Tyr	
405	410	415
Leu Ala Ile Leu Val Gly Ala Gly Met	Thr Phe Ile Val Gln Ser Ser	
420	425	430
Ser Val Phe Thr Ser Ala Leu Thr Pro	Leu Ile Gly Ile Gly Val Ile	
435	440	445
Thr Ile Glu Arg Ala Tyr Pro	Leu Thr Leu Gly Ser Asn Ile Gly Thr	
450	455	460
Thr Thr Thr Ala Ile Leu Ala Ala Leu Ala	Ser Pro Gly Asn Ala Leu	
465	470	475
Arg Ser Ser Leu Gln Ile Ala Leu Cys His	Phe Phe Asn Ile Ser	
485	490	495
Gly Ile Leu Leu Trp Tyr Pro Ile Pro	Phe Thr Arg Leu Pro Ile Arg	
500	505	510
Met Ala Lys Gly Leu Gly Asn Ile Ser Ala	Lys Tyr Arg Trp Phe Ala	
515	520	525
Val Phe Tyr Leu Ile Ile Phe Phe	Leu Ile Pro Leu Thr Val Phe	
530	535	540
Gly Leu Ser Leu Ala Gly Trp Arg Val	Leu Val Gly Val Gly Val Pro	
545	550	555
Val Val Phe Ile Ile Leu Val Leu Cys	Leu Arg Leu Leu Gln Ser	
565	570	575
Arg Cys Pro Arg Val Leu Pro Lys	Lys Leu Gln Asn Trp Asn Phe Leu	
580	585	590
Pro Leu Trp Met Arg Ser Leu Lys	Pro Trp Asp Ala Val Val Ser Lys	
595	600	605
Phe Thr Gly Cys Phe Gln Met Arg Cys	Cys Cys Cys Arg Val Cys	
610	615	620
Cys Arg Ala Cys Cys Leu Leu Cys Gly	Cys Pro Lys Cys Cys Arg Cys	
625	630	635
Ser Lys Cys Cys Glu Asp Leu Glu Ala	Gln Glu Gly Gln Asp Val	
645	650	655
Pro Val Lys Ala Pro Glu Thr Phe Asp	Asn Ile Thr Ile Ser Arg Glu	
660	665	670
Ala Gln Gly Glu Val Pro Ala Ser Asp	Ser Lys Thr Glu Cys Thr Ala	
675	680	685
Leu		

<211> 4137

<212> DNA

<213> human

<400> 2

ctgacgtagg	cccagcacct	gcggaggggag	cgctgaccat	ggctccctgg	cctgaattgg	60
gagatgccc	gccccaaaa	gataagtacc	tcgaaggggc	cgcaggtca	cagcccaactg	120
cccctgataa	aagcaaaagag	accaacaaa	ataacactga	gacacactgt	accaagattg	180
aacttctgc	gtcctactcc	acggctacac	tgataagatga	gcccactgag	gtggatgacc	240
cctggAACCT	acccactt	caggactcgg	ggatcaagt	gtcagagaga	gacaccaaa	300
ggaagattct	ctgtttcttc	caagggattt	ggagattgt	tttacttctc	ggatttctct	360
actttttcg	gtgctccctg	gatattctta	gtagcgcctt	ccagctgggt	ggaggaaaaa	420
tggcaggaca	gttcttcagc	aacagctcta	ttatgtccaa	ccctttgtt	gggctgggt	480
tccgggtgc	gttgaccgtc	ttgggtcaga	gctccagcac	ctcaacgtcc	atcgttgtca	540
gcatgggtgc	ctcttcattt	ctcaactgtt	gggctccat	ccccattatc	atgggggcca	600
acattggaa	gtcaatcacc	aacactattt	ttgcgtctat	gcaggtggga	gatcggagt	660
agttcagaag	agctttgca	ggagccactg	tccatgactt	ttcaactgg	ctgtccgtgt	720
tgggtctt	gcccgtggag	gtggccaccc	attacctcga	gatcataacc	cagcttatag	780
tggagagctt	ccacttcaag	aatggagaag	atgcccaga	tcttctgaaa	gtcatcacta	840
agcccttcac	aaagctcatt	gtccagctgg	ataaaaaagt	tatcagccaa	attgoatga	900
acgatgaaaa	agcgaaaaac	aagagtctt	tcaagattt	gtgaaaaact	tttaccaaca	960
agacccagat	taacgtcact	gttccctcga	ctgctaactt	cacccccc	tccctctgtt	1020
ggacggatgg	catccaaaac	tggaccatga	agaatgtac	ctacaaggag	aacatcgcca	1080
aatgccagca	tatctttgt	aatttccacc	tcccggatct	tgctgtggc	accatcttgc	1140
tcataactctc	cctgctggc	ctctgtggtt	gcctgatcat	gattgtcaag	atcctggct	1200
ctgtgctcaa	ggggcagggtc	gccactgtca	tcaagaagac	catcaacact	gattttccct	1260
tccctttgc	atggttgact	ggctacctgg	ccatcctcg	ggggcaggc	atgaccttca	1320
tcgtacagag	cagctctgt	ttcacgtcg	ccttgacccc	cctgattgga	atcggcgtga	1380
taaccattga	gagggcttat	ccactcacgc	tgggctccaa	catcgccacc	accaccaccc	1440
ccatccctggc	cgccttagcc	agccctggca	atgcatttag	gagttcactc	cagatcgccc	1500
tgtgccactt	tttcttcaac	atctccggca	tcttctgt	gtacccgatc	ccgttcaactc	1560
gcctgcccatt	ccgcattggcc	aaggggctgg	gcaacatctc	tgccaagtt	.cgctggtcg	1620
ccgttctcta	cctgatcatc	tttttcttcc	tgatcccgt	gacgggtttt	ggcctctcgc	1680
tggccggctg	gcgggtgctg	gttgggtgt	gggtttccgt	cgttttcatc	atcattctgg	1740
tactgtgcct	ccgactcctg	cagtctcgct	gcccacgcgt	cctgcccgaag	aaactccaga	1800
actggaaact	cctgcccgt	tggatgcgt	cgctgaagcc	ctgggatgoc	gtcgcttcca	1860
agttcaccgg	ctgttccag	atgcgtctgt	gctgtctgt	ccgcgtgtgc	tgccgcgcgt	1920
gctgtttgt	gtgtggctgc	cccaagtgt	gcccgtgcag	caagtgtctgc	gaggacttgg	1980
aggaggcgc	ggagggcag	gatgtccctg	tcaaggtcc	tgagacctt	gataacataa	2040
ccatttagca	agaggctca	ggtgaggtcc	ctgcctcgga	ctcaaagacc	gaatgcacgg	2100
ccttgttagg	gacgccccag	attgtcaggg	atggggggat	ggtcctttag	ttttgcatgc	2160
tctcctccct	cccacttctg	cacccttca	ccacctcgag	gagatttgc	ccccatttagc	2220
gaatgaaatt	gatgcgtcc	tacctaactt	gattccctt	ggcttgggt	gtaggcctgc	2280
agggcactt	tattccaaacc	cctggctact	cagtaatctt	ttactccagg	aggcacagg	2340
atggtaccta	aagagaattt	gagaatgaac	ctggcgggac	ggatgtctaa	tcctgcaccc	2400
agctgggtt	gtcagtagaa	cctattttca	gactaaaaaa	ccatcttcag	aaagaaaagg	2460
cccaaggaa	gaatgtatga	gaggctctcc	cagatgagga	agtgtactt	ctatgactat	2520
caagctcagg	cctccctt	tttttaaacc	aaagtcggc	aaccaagacc	agcagctcca	2580
tggcctcctt	gccccagatc	agcctgggtc	aggggacata	gtgtcattgt	ttggaaactg	2640
cagaccacaa	ggtgtgggtc	tatccactt	cctagtgtct	cccacattcc	ccatcaggc	2700
ttcctcacgt	ggacaggtgt	gttagtccag	cgagttca	tgcagttcc	ttgtcctcat	2760
gtttcgggga	tgggagccac	gcctgaacta	gagttcaggc	tggatacatgt	tgctcacctg	2820
ctgctcttgt	cttcctaaga	gacagagat	ggggcagatg	gaggagaaga	aagttaggaa	2880
ttagtagcat	agcatttgc	aaaaaggcc	ccagatttctt	aatttagcaa	actaagaagc	2940
ccaattcaaa	agcattgtgg	ctaaagtcta	acgctccctt	cttgggtcaga	taacaaaagc	3000
cctccctgtt	ggatctttt	aaataaaacg	tgcaagttat	ccaggctcg	agcctgcatt	3060
ctgccaccc	aatcccagg	gagtatctgc	acctgaaata	gctctccacc	cctctgtcc	3120

tccttacttt ctgtgcaaga tgacttcctg ggtaacttc cttcttcca tccacccacc 3180  
cactggaaatc tctttccaaa cattttcca ttttcccaca gatgggctt gattagctgt 3240  
cctctctcca tgcctgcaaa gctccagatt tttggggaaa gctgtaccca actggactgc 3300  
ccagtgaact gggatcattg agtacagtctg agcacacgtg tgtgcattgg tcaaagggt 3360  
gtgttccttc tcatccatg tgccttctt gtgccttcca cagcctcctg cctgattaca 3420  
ccactgcccc cggccccaccc tcagccatcc caatttcttcc tggccagtgc gctccagcct 3480  
tatcttagaa aggaggagtg ggttagccg tgcagaaga ttggggcctc ccccatccca 3540  
gcttctccac catcccagca agtcaggata tcagacagtc ctccccctgac cctccccctt 3600  
gtagatatac attcccaaac agagccaaat actctatatac tatagtacaca gccctgtaca 3660  
gcattttca taagttatata agtaaatggt cttctagtgc tctcatttgg aaatgaggca 3720  
ggcttcttct atgaaatgtt aagaaagaaa ccacttgcata tattttgtttaa taccacctct 3780  
gtggccatgc ctgccccgccc cactctgtat atatgtaaat taaaaccgggg caggggctgt 3840  
ggccgtctt gtactctggt gatttttaga aattgaatct ttgtacttgc attgattgtt 3900  
taataatttt gagaccaggc ctcgctgtgt tgctcaggct ggtctaaac tcctgagatc 3960  
aagcaatccg cccacccatcag cttcccaaag tgctgagatc acaggcgtga gccaccacca 4020  
ggcctgattt taattttttt tttttttttttttt ttactgggtt atgggaaggg agaaataaaaa 4080  
tcatcaaacc caaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa aaaaaaaaaaaaaaaa 4137